

Natural Gas Working Group



California Energy Commission

June 4, 2009

Electricity Analysis Office

Generation Fuels Unit

Natural Gas Market Assessment

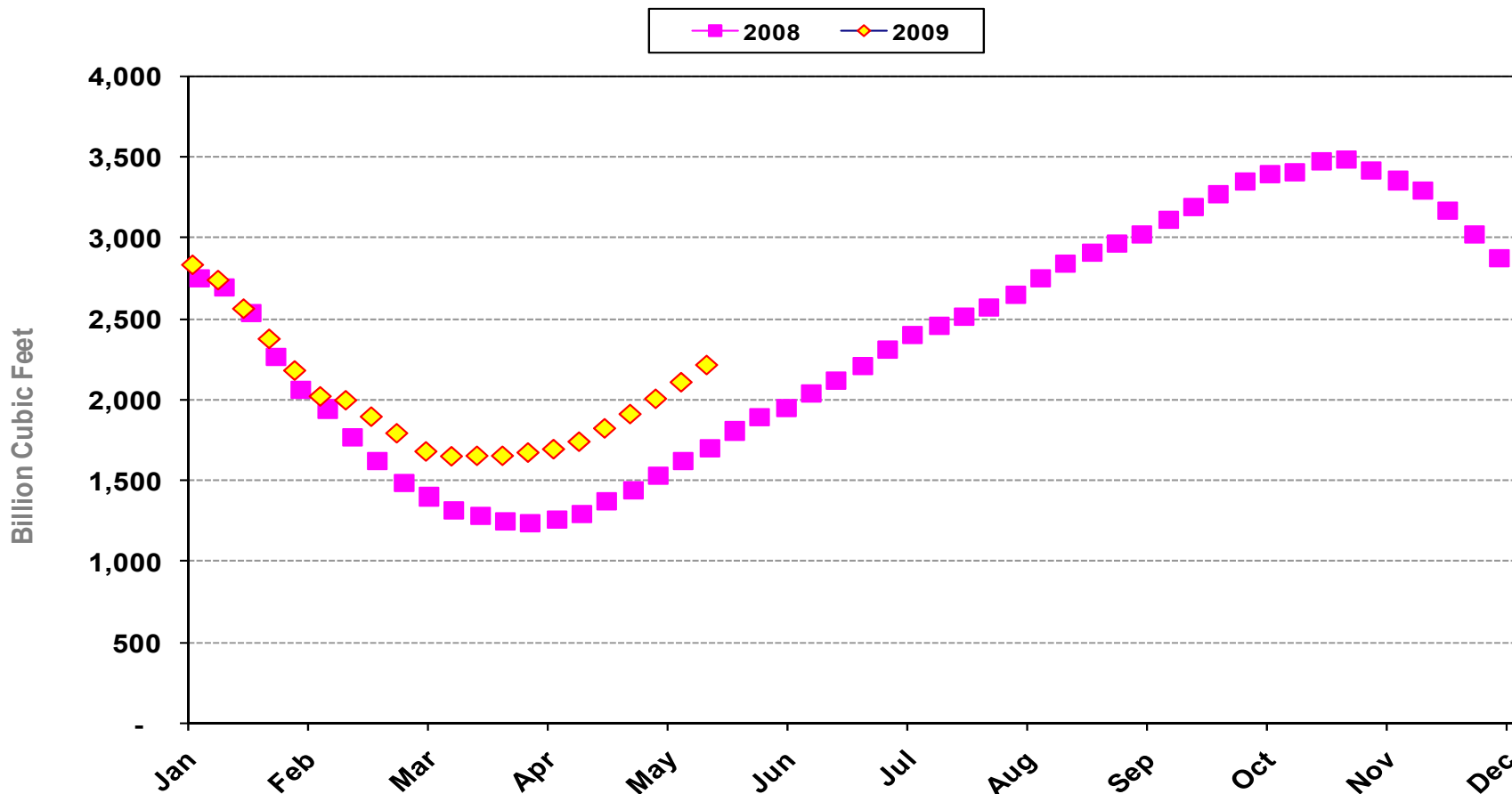
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Storage: United States and California

U.S. Storage Monthly Inventory

(Current Year vs. Previous Year)

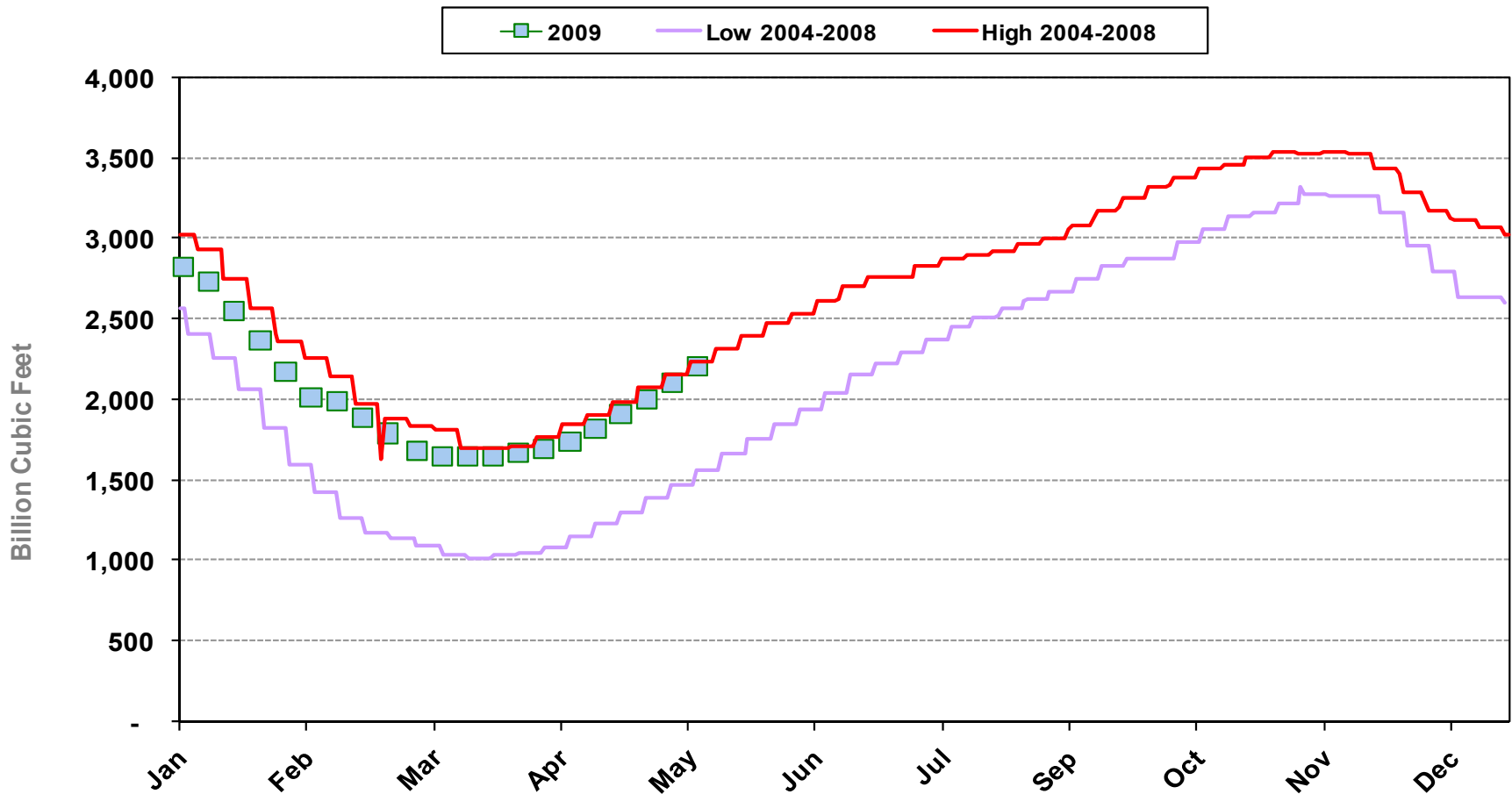


Current U.S. Natural Gas Storage Capacity: 3,703 Billion Cubic Feet; Sources: EIA

Prepared by CEC Staff 6/03/2009

U.S. Storage Monthly Inventory

(Current Year vs. 5-Year Band)

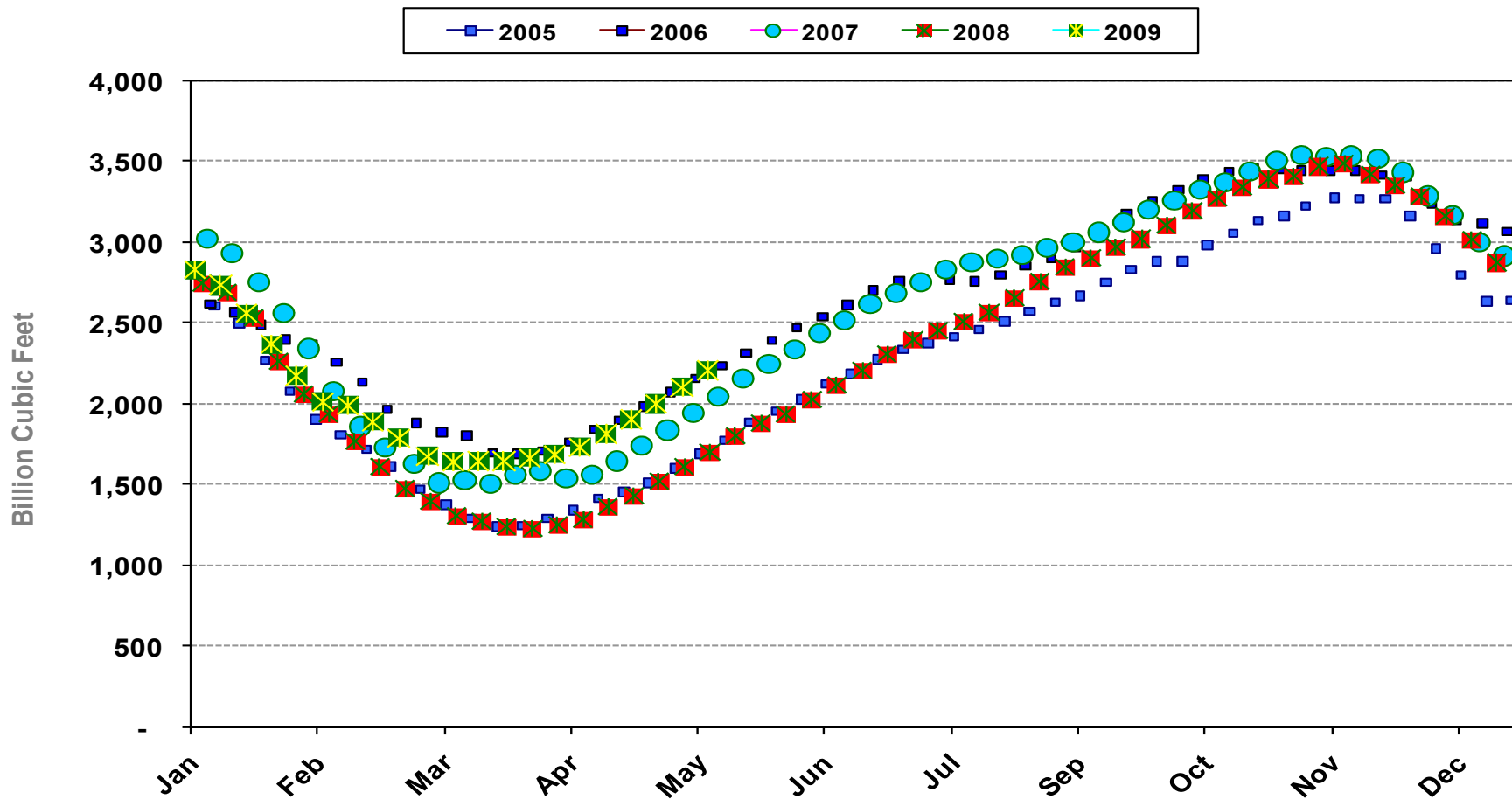


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Prepared by CEC Staff 6/03/2009

U.S. Storage Monthly Inventory

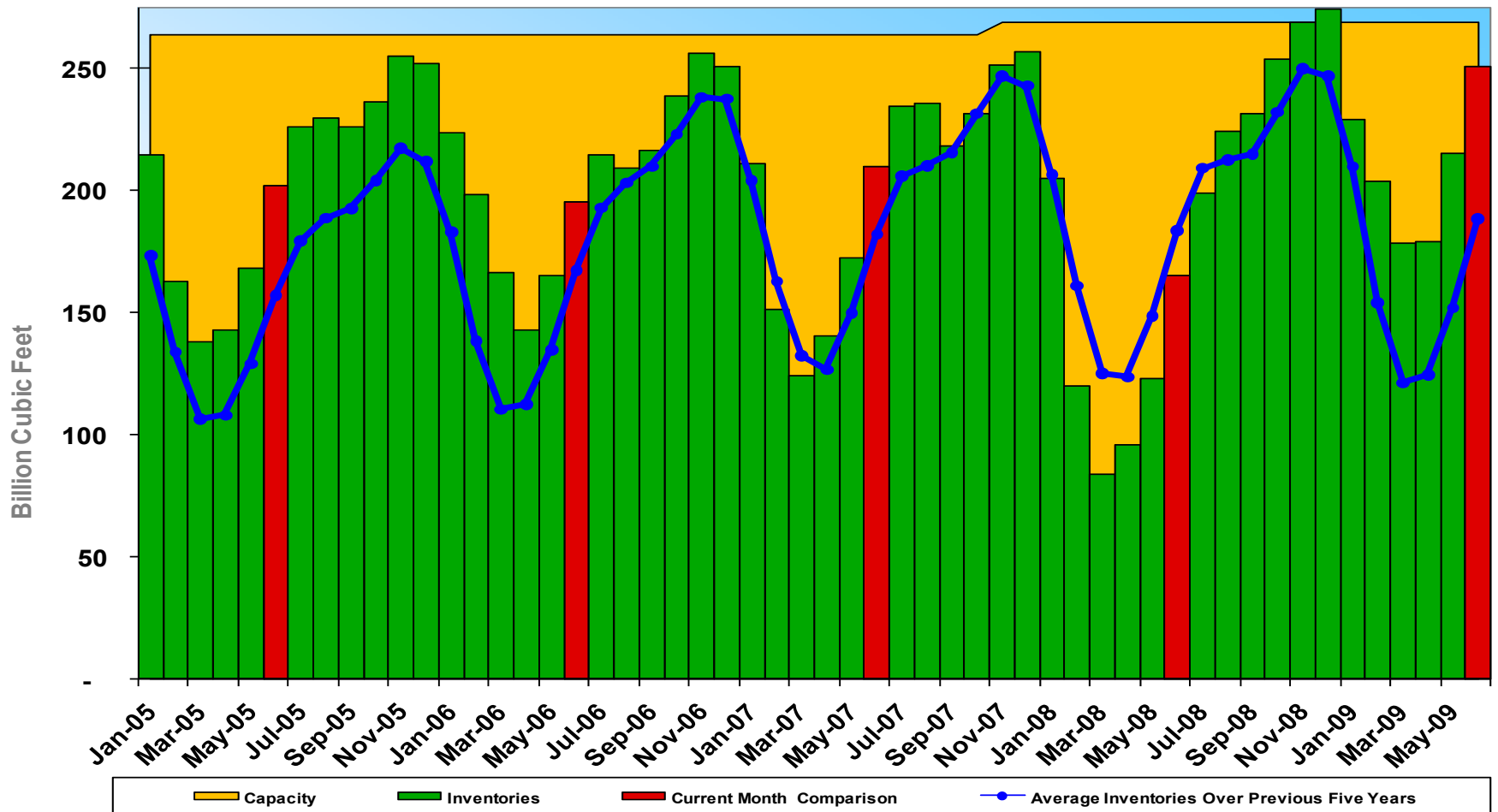
(Current Year vs. Previous Year)



Current U.S. Natural Gas Storage Capacity: 3,703 Billion Cubic Feet; Sources: EIA

Prepared by CEC Staff 6/03/2009

CA Storage Capacity and Utilization



Prepared by CEC Staff 6/03/2009

Beginning of the month levels, unless indicated. California Energy Commission Staff's estimate

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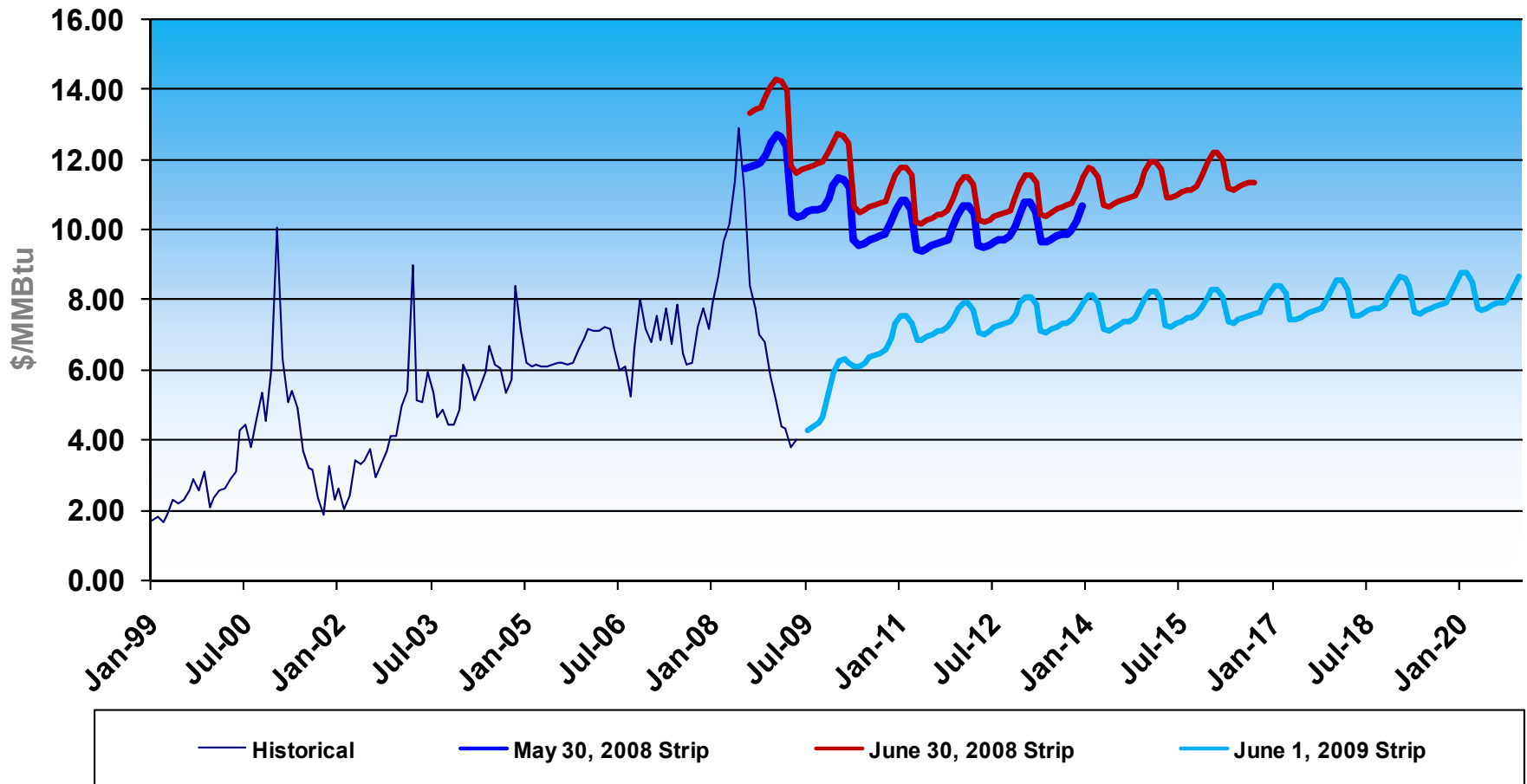


Prices: United States and California

U.S. Natural Gas Futures Prices



Historical & Forward NYMEX Settlements

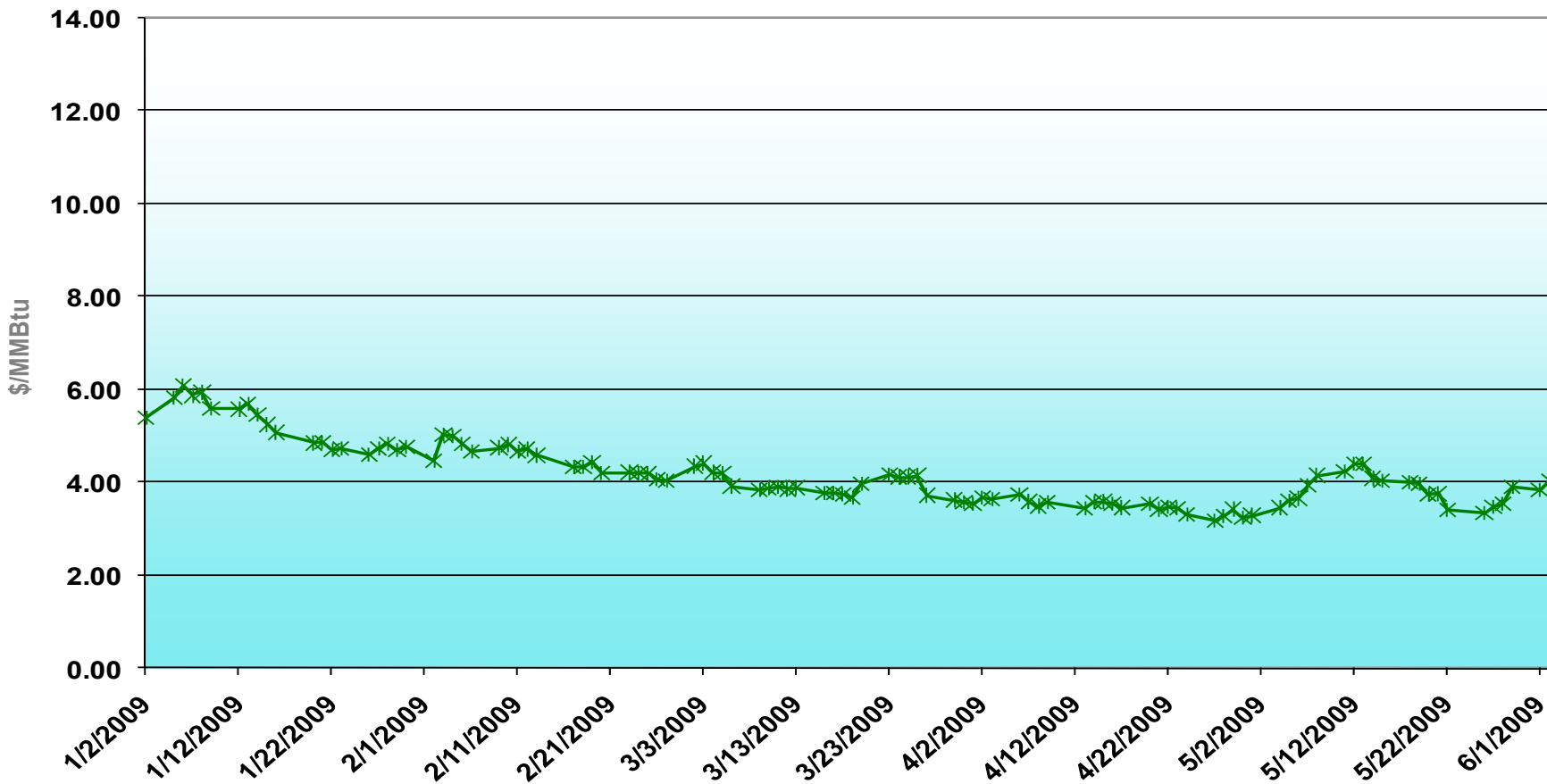


Prepared by CEC Staff 6/03/2009

Henry Hub Daily Spot Prices

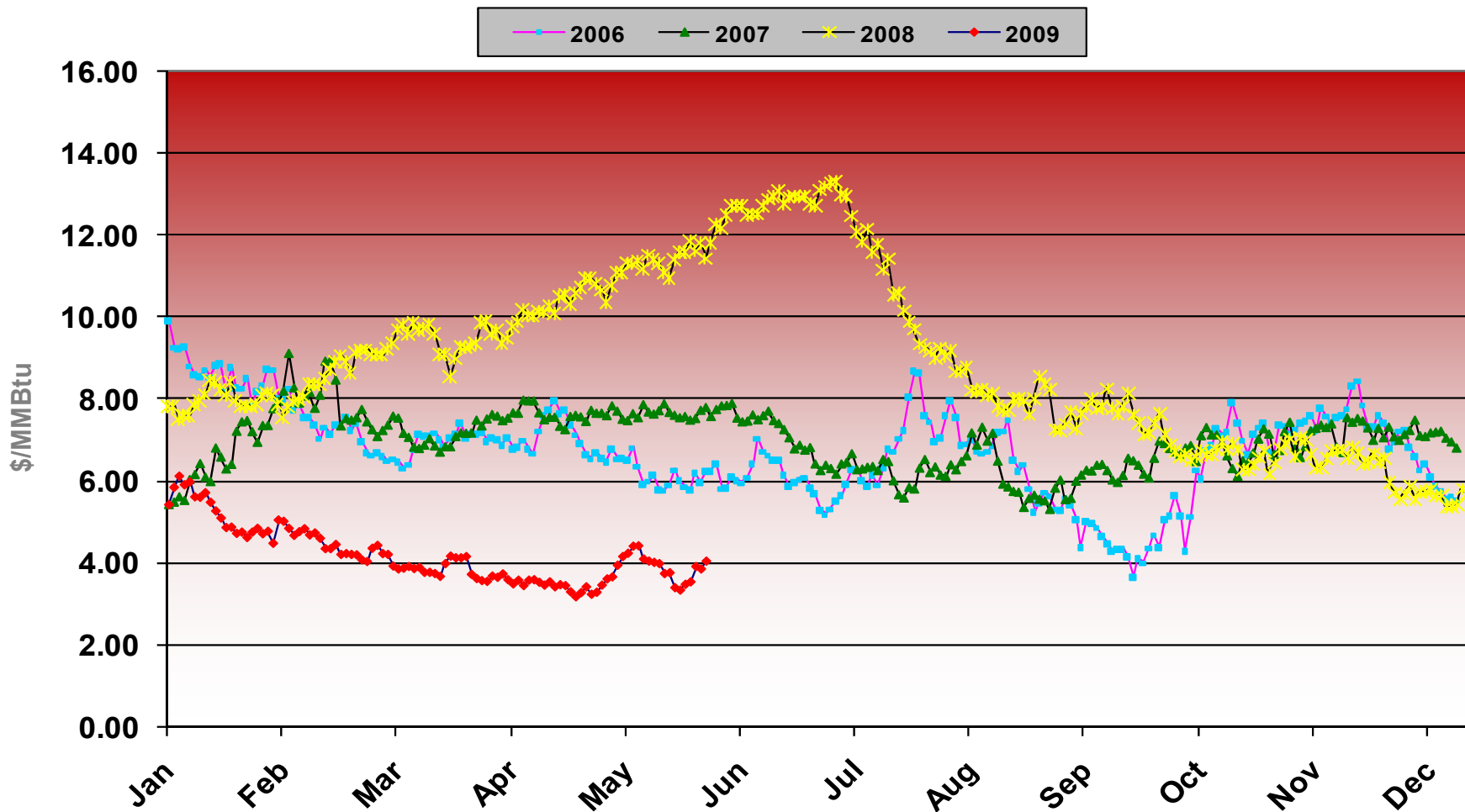


2009



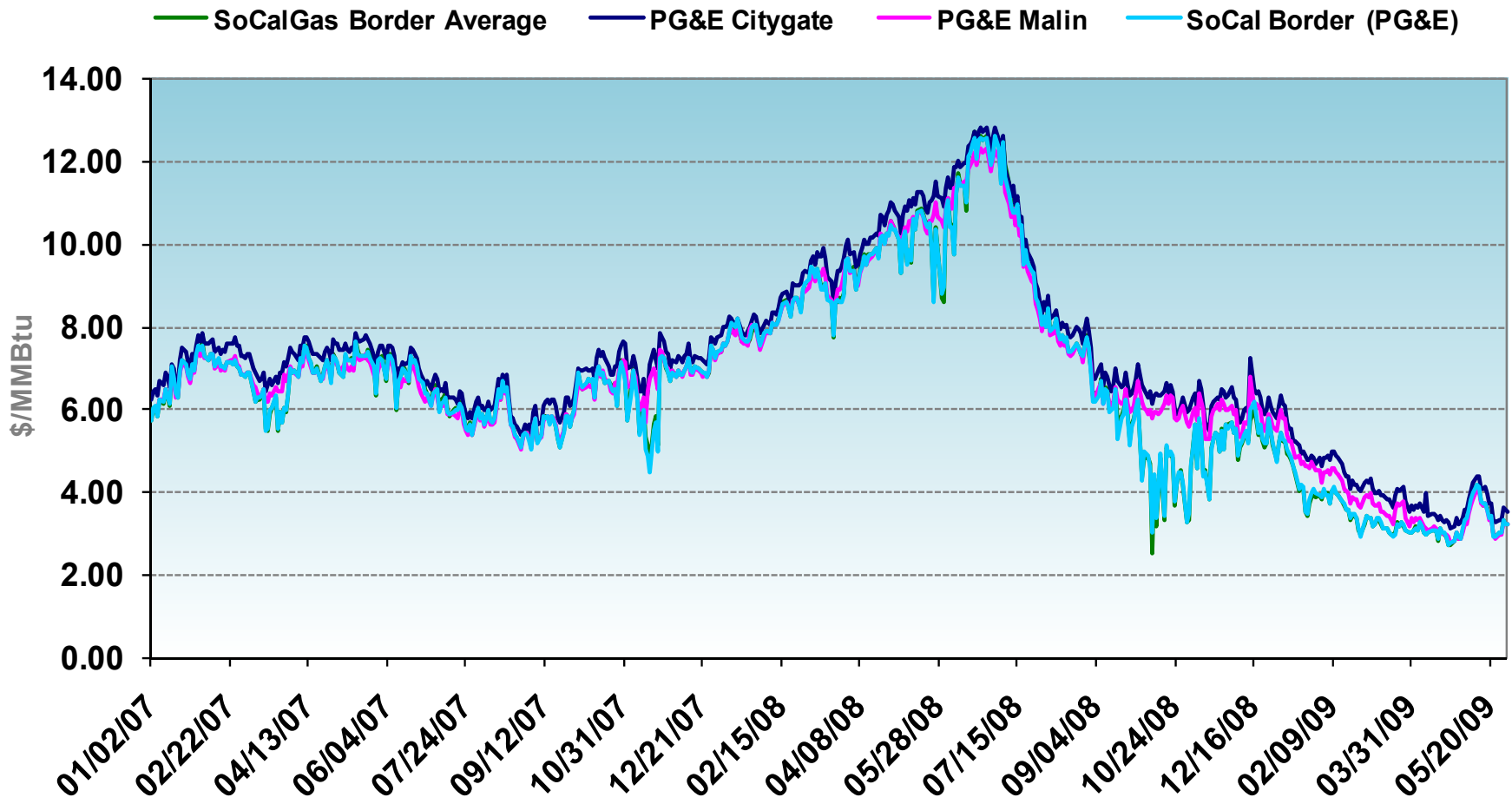
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Henry Hub Daily Spot Prices



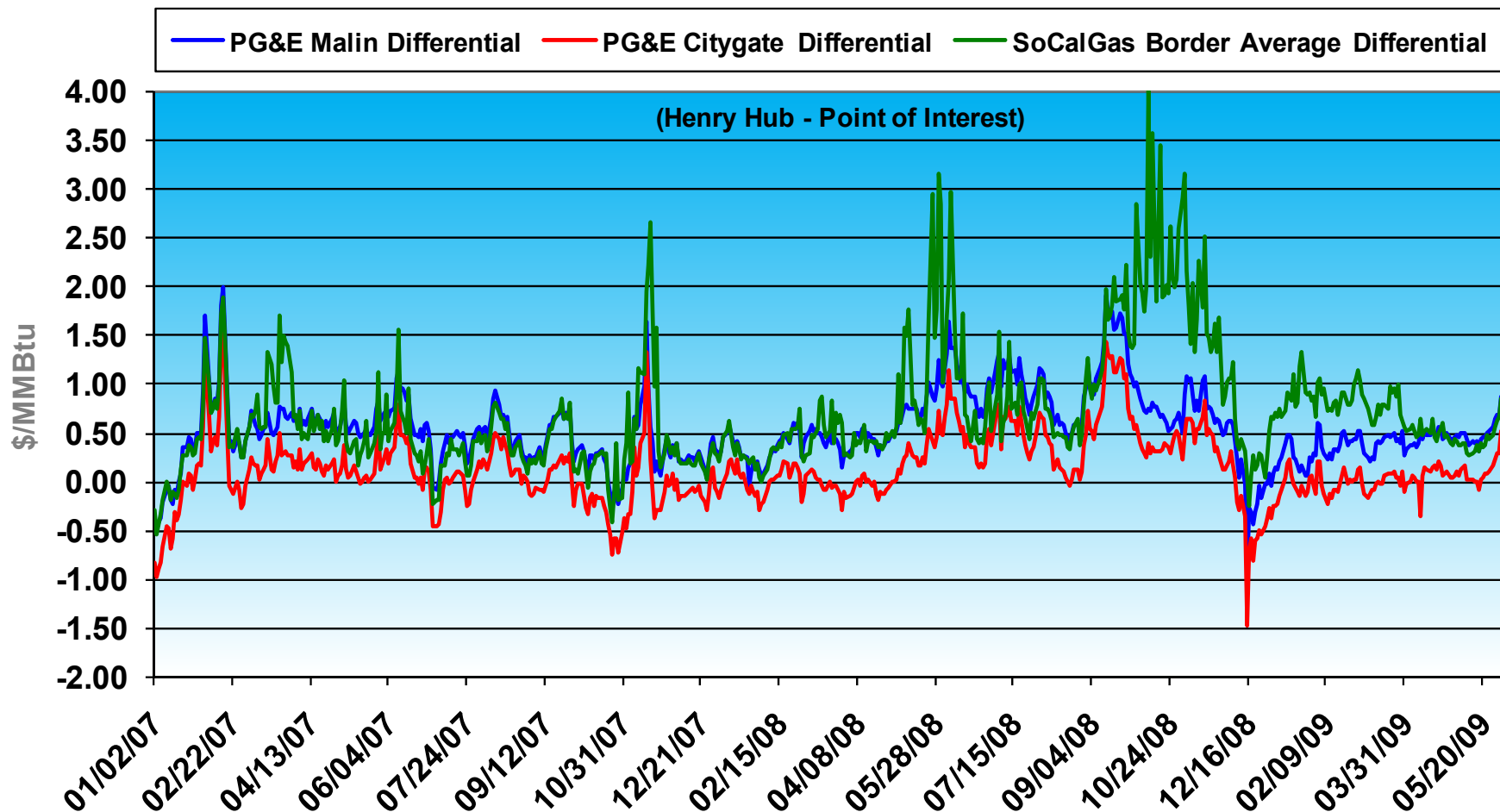
Prepared by CEC Staff 6/03/2009

CA Natural Gas Spot Prices



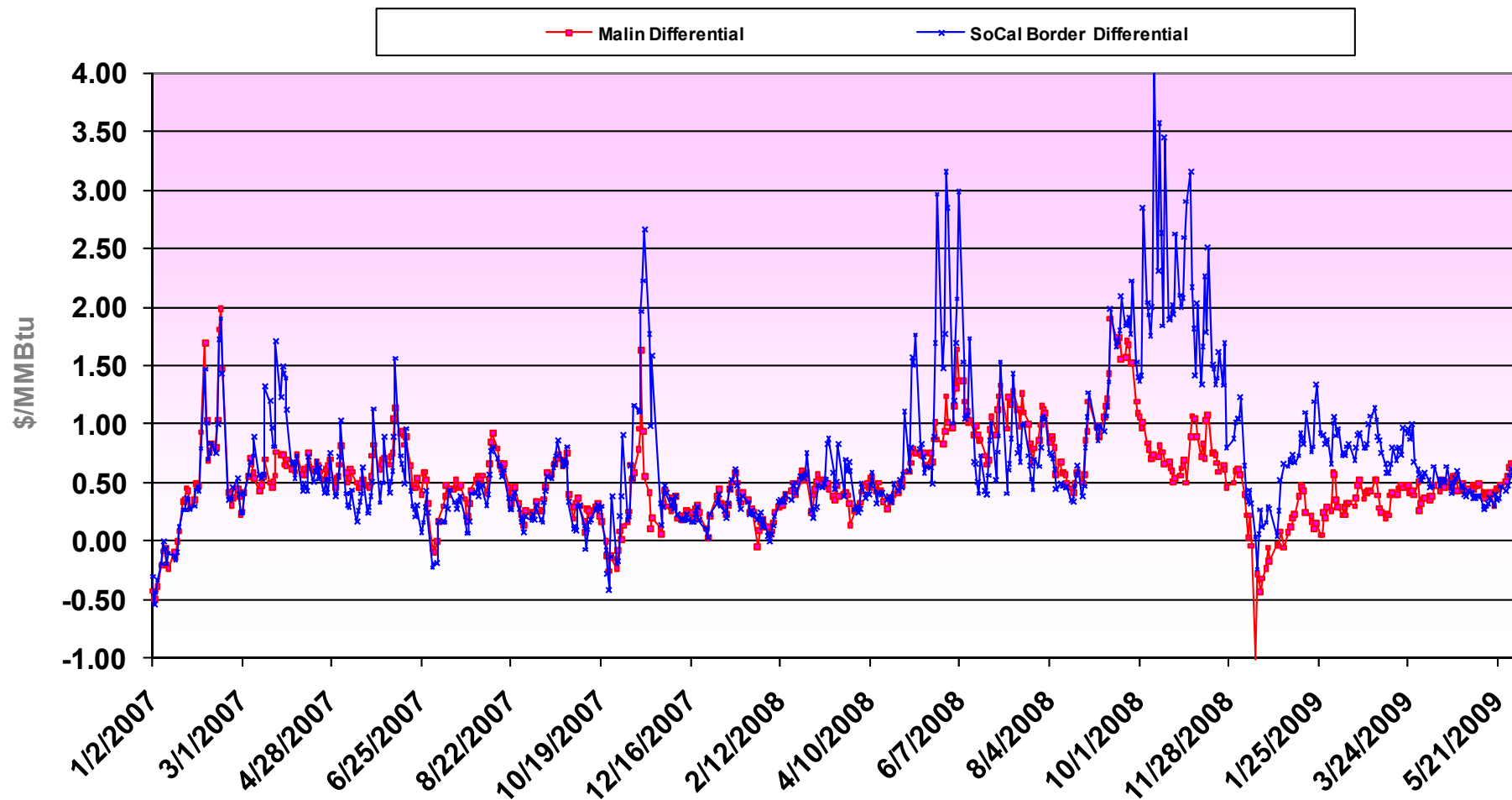
Prepared by CEC Staff 6/03/2009

Henry Hub Daily Spot Prices Differential



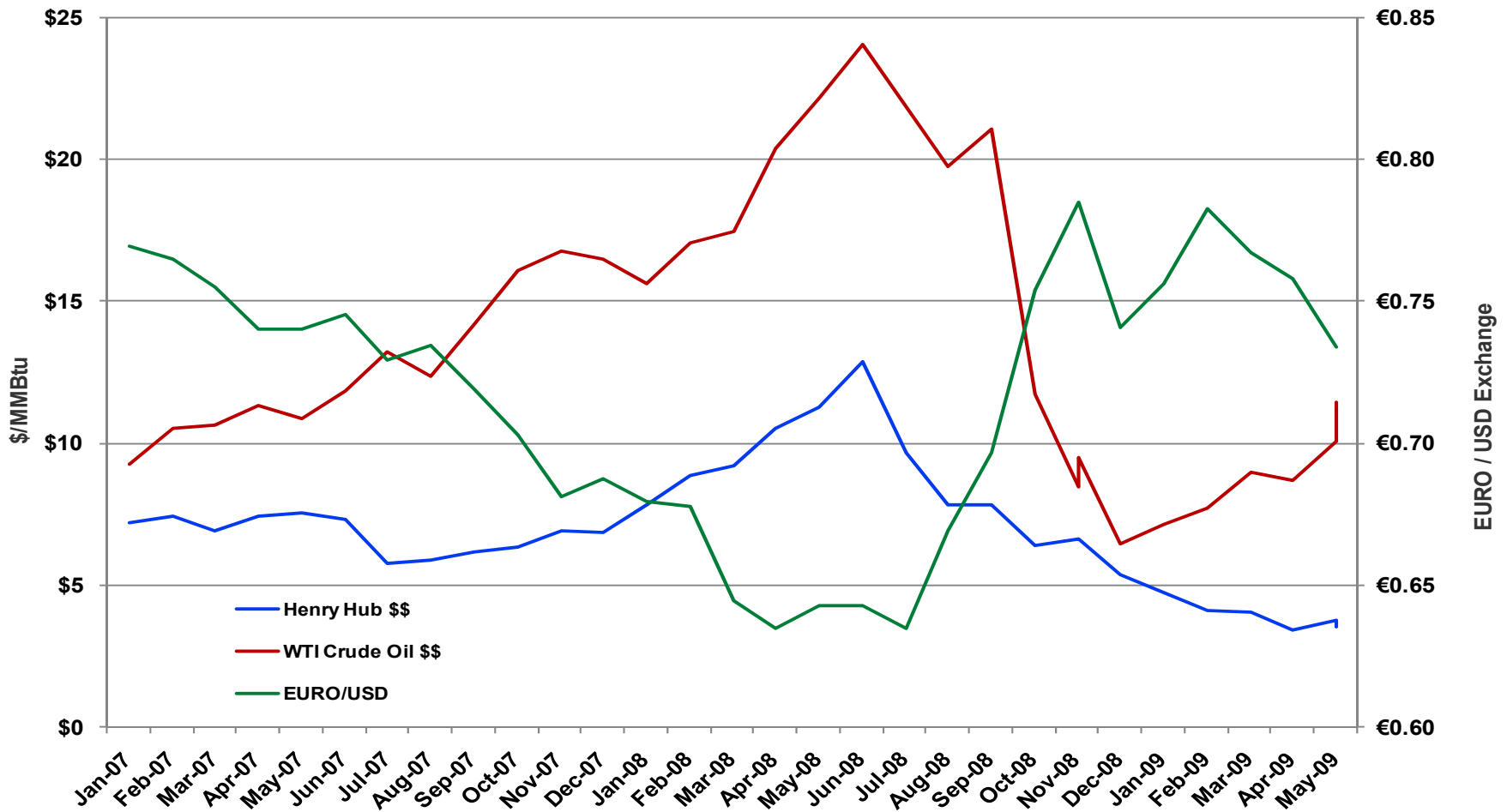
Prepared by CEC Staff 6/03/2009

Henry Hub Daily Spot Prices 3-Year Differential



Prepared by CEC Staff 6/03/2009

NG-Oil Spot Prices – Euro/USD



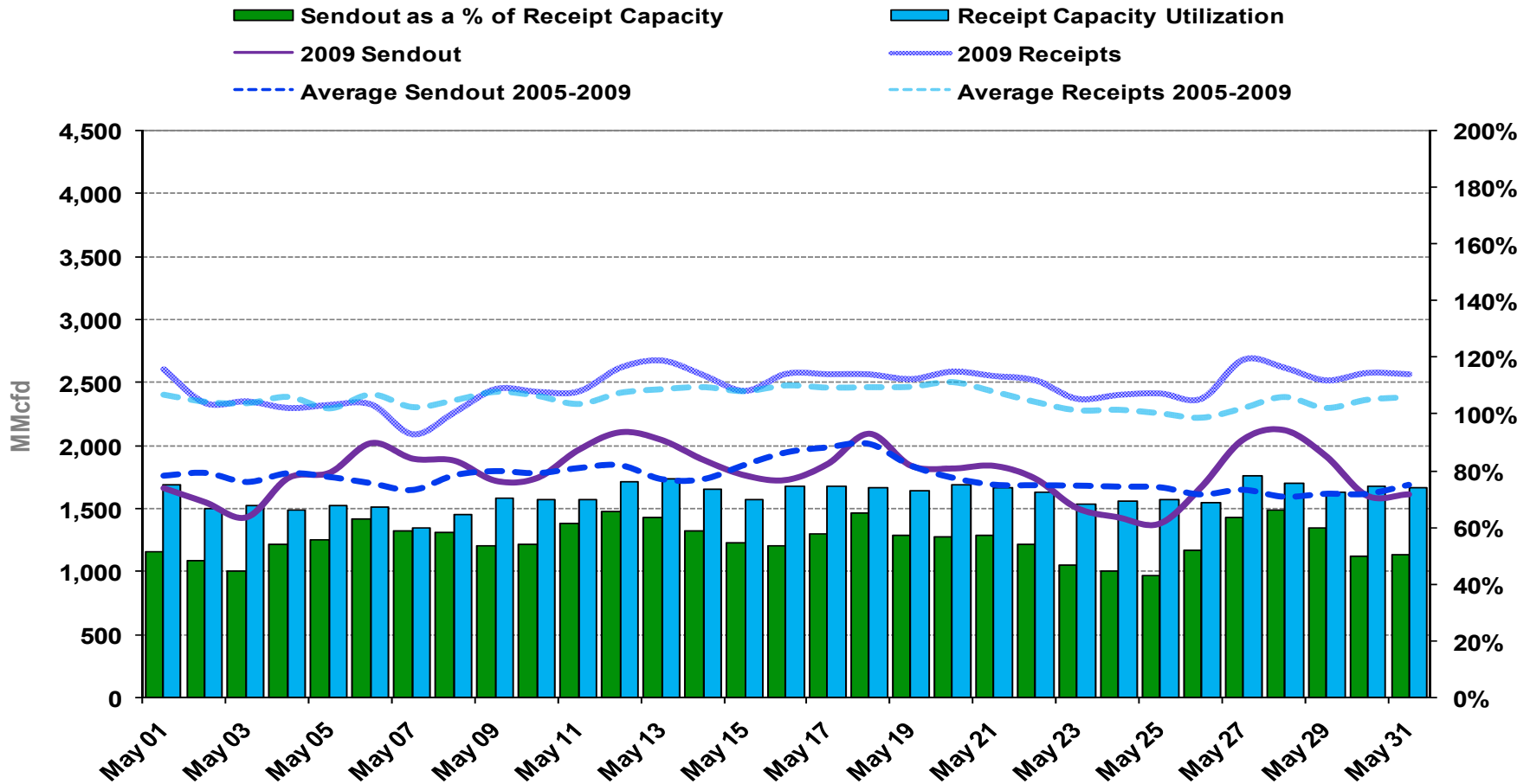
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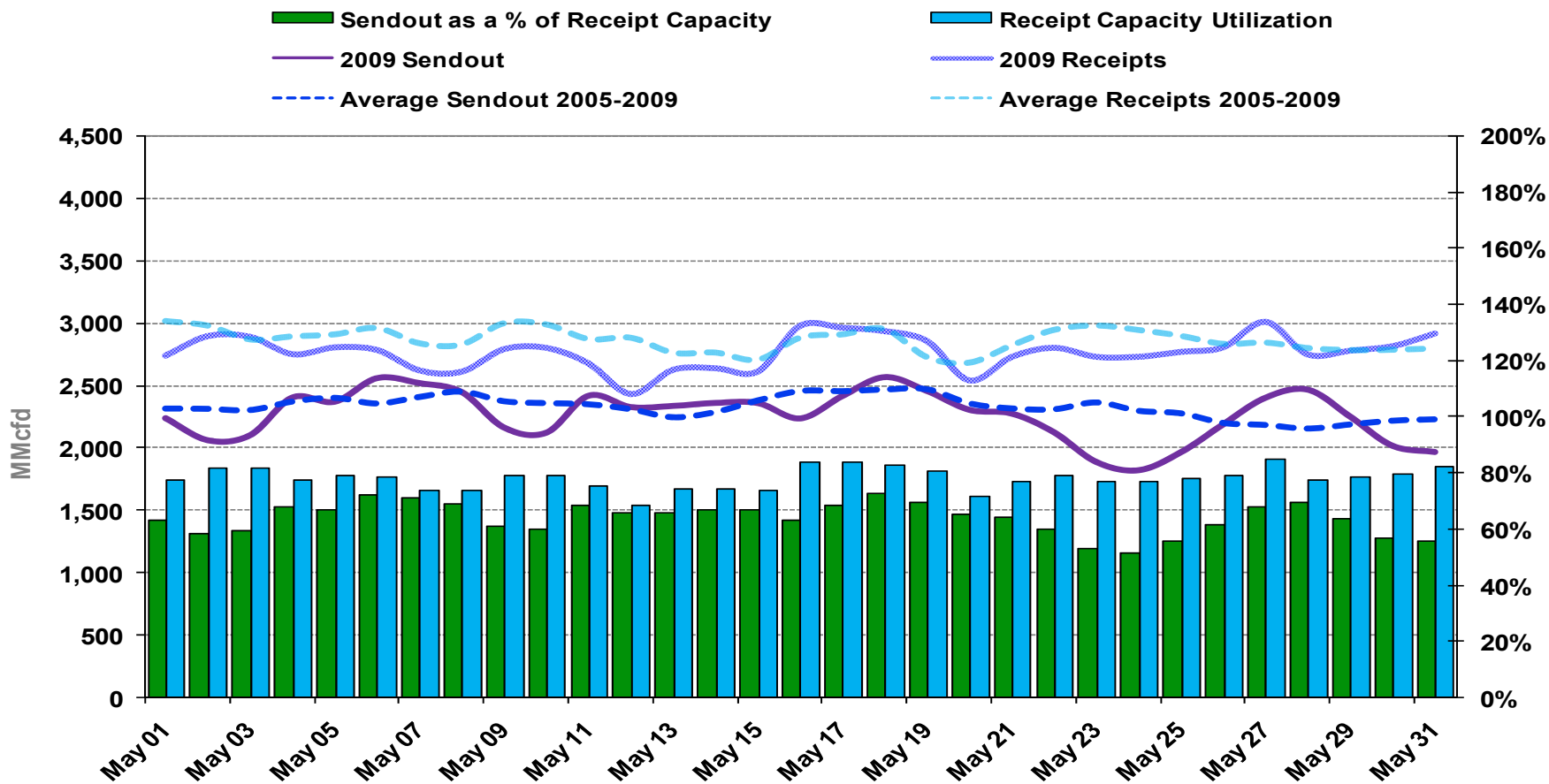
Infrastructure and Operations

PG&E System Operations



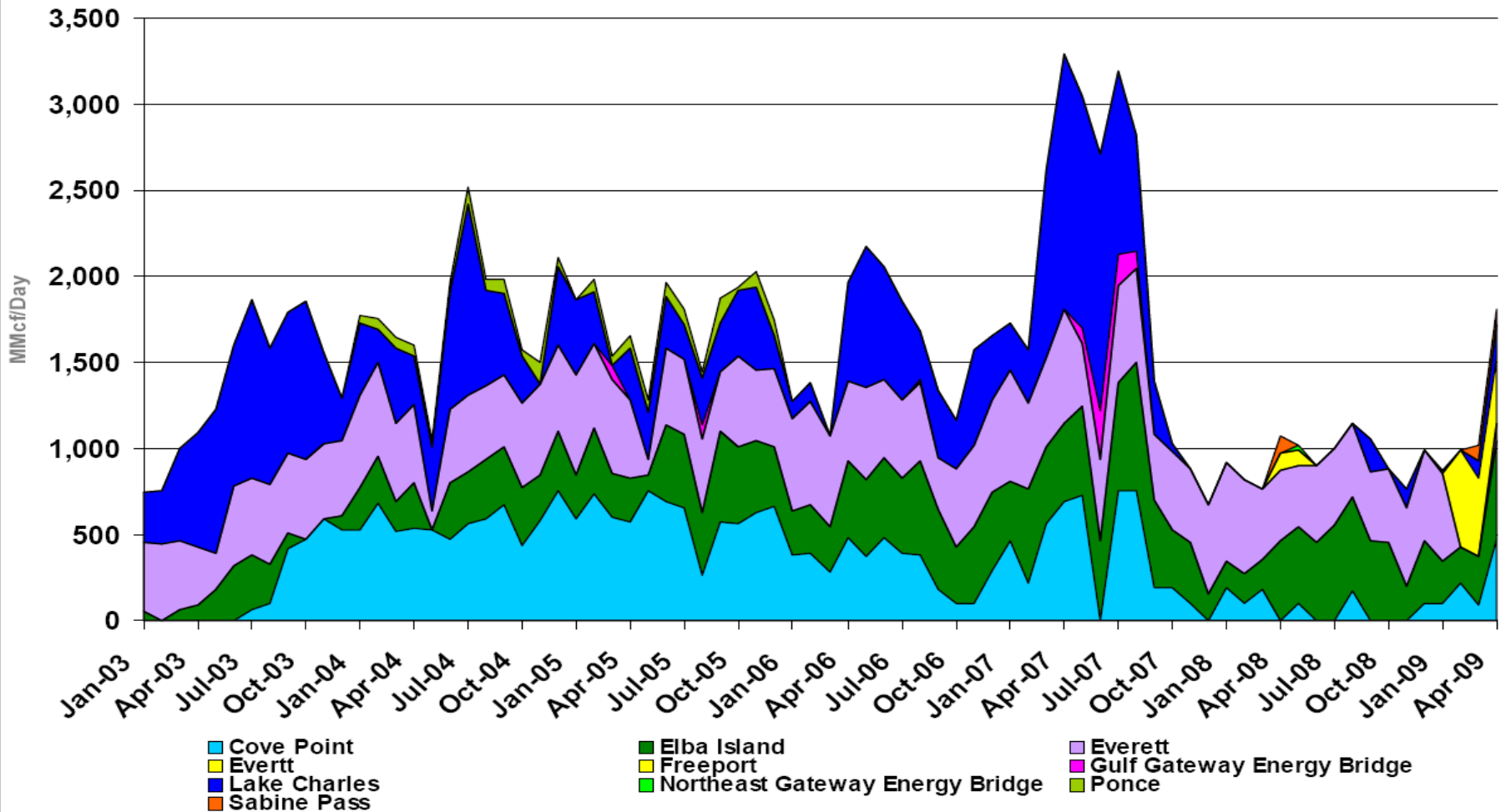
Prepared by CEC Staff 6/03/2009

SCG System Operations



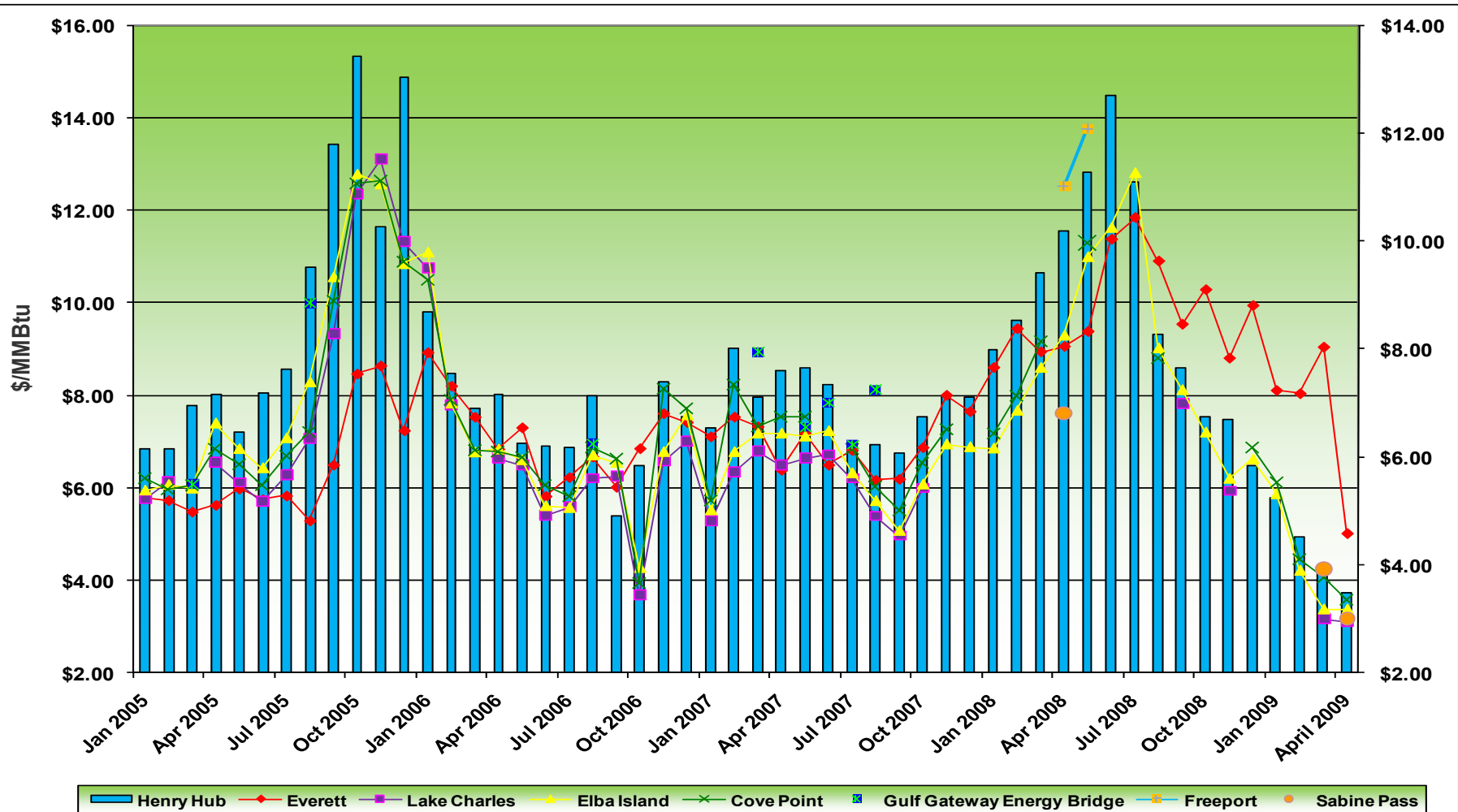
Prepared by CEC Staff 6/03/2009

LNG Imports



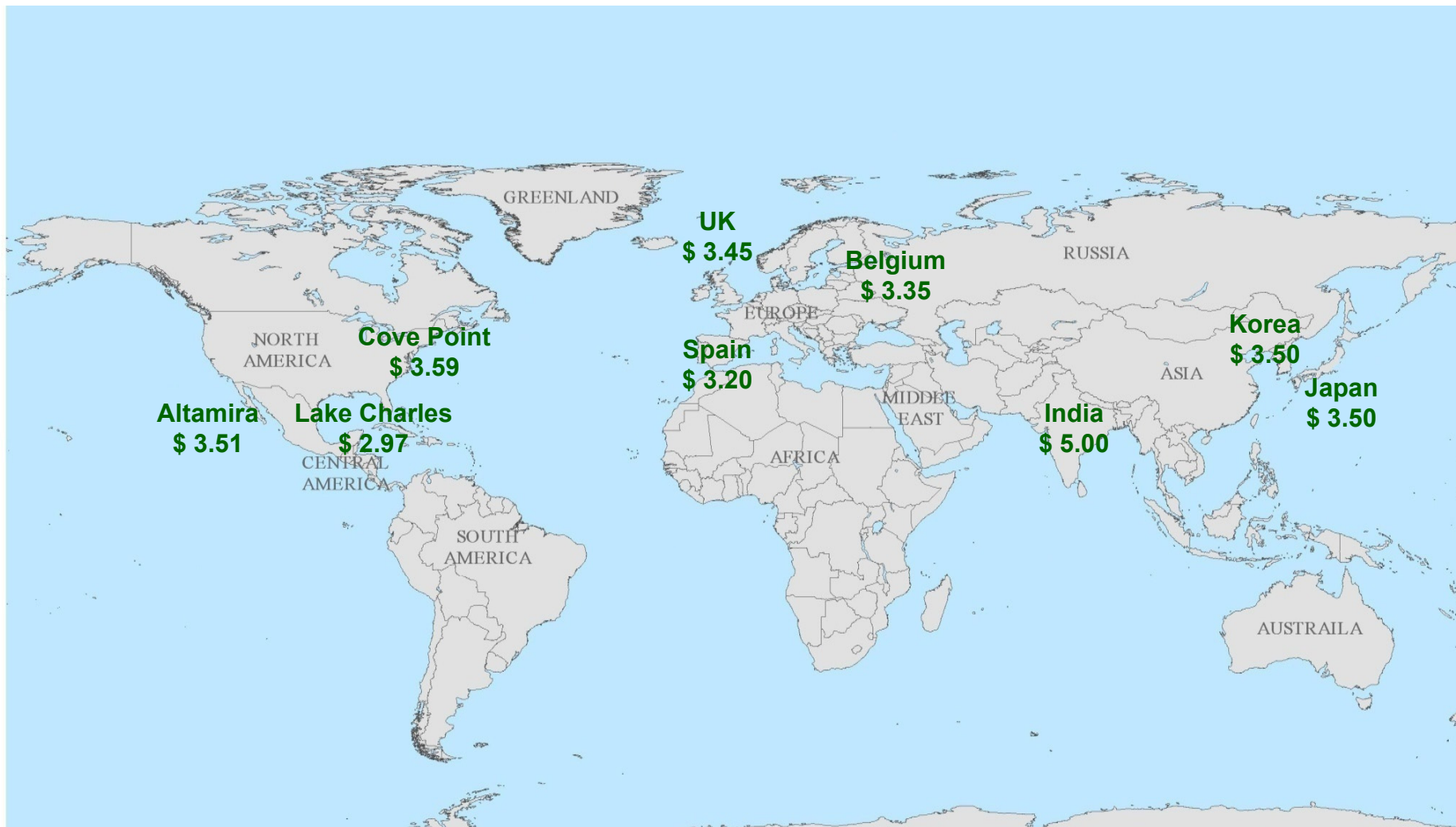
Prepared by CEC Staff 6/03/2009

Average Terminal LNG Import Price



Prepared by CEC Staff 6/03/2009

World LNG Estimated May 2009 Landed Prices

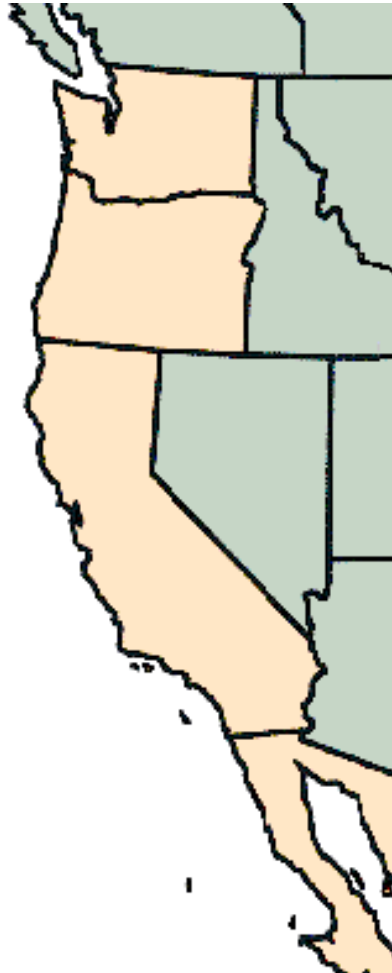


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LNG Update

LNG UPDATE SUMMARY



Clearwater Port LNG Project



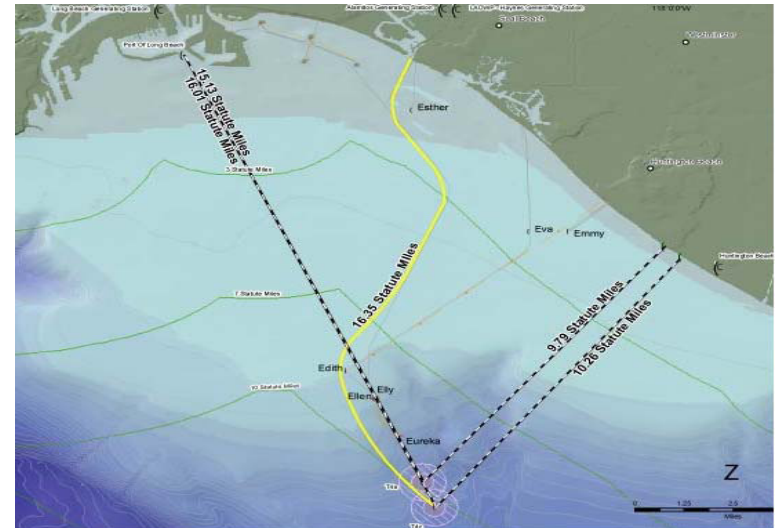
- California Location:
12.6 miles offshore from
City of Oxnard
- Owner: NorthernStar
Natural Gas Inc
- Capacity: 1.4 Bcfd
Peak
- Status: Application
Clock Stopped



Port Esperanza



- California Location: 15 miles seaward of the Port of Long Beach
- Owner: Esperanza Energy
- Capacity: 1.2 Bcfd
- Status: Project on hold



Northern Star LNG Facility



- Oregon Location: Bradwood, Oregon, south shore Columbia River
- Owner: NorthernStar Natural Gas LLC
- Capacity: Peak send out of 1.3 Bcfd
- Status: LUBA's ruling overturns county's approval decision, matter to county now, US DoJ seeks review



Oregon LNG Facility



- Oregon Location:
Astoria
- Owner: Funding Partners
- Capacity: 1.5 Bcfd Peak
- Status: U. S. Coast Guard issues letter of recommendation 4/21/09



Jordan Cove Energy Project



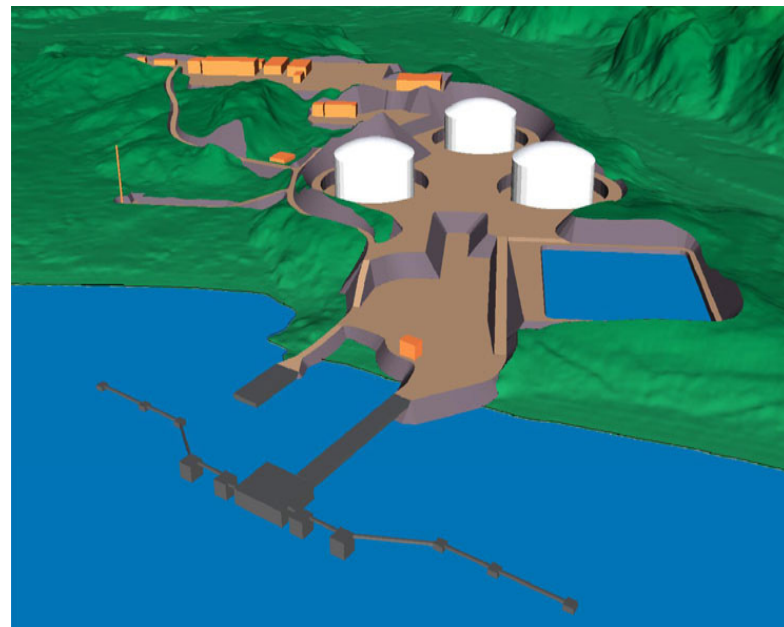
- Oregon Location: bay side of North Spit of Coos Bay
- Owner: Energy Projects Development, LLC
- Capacity: 1.0 Bcfd
- Status: FERC issues Final EIS on 5/1/09; finds project environmentally acceptable



Kitimat LNG Facility



- Canada Location: Bish Cove near Port of Kitimat
- Owner: Galveston LNG Inc
- Capacity: 1.0 Bcfd Peak
- Status: Mitsubishi becomes partner, Pipeline approved



Energia Costa Azul LNG Facility



- Mexico Location: 14 miles north of Ensenada
- Owner: Sempra Energy LNG Corporation
- Capacity: 1.3 Bcfd Peak
- Status: Gazprom and Shell reach an agreement 4/8/09; Tangguh LNG delayed to July

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Questions/New Issues